



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	
Michael STEIGERWALD, et al.	)	Group Art Unit: 2881
Application No.: 10/825,240	)	Examiner:
Filed: April 16, 2004	)	Confirmation No.: 7784
For: ELECTRON MICROSCOPY SYSTEM,	)	
ELECTRON MICROSCOPY METHOD	)	
AND FOCUSING SYSTEM FOR	)	
CHARGED PARTICLES	)	

**FIRST INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

Certain documents listed on the attached PTO-1449 are foreign language documents. The undersigned has been informed that the following foreign language documents correspond to U.S. Patent documents:

**FOREIGN  
DOCUMENT**

EP 0 180 723-A1  
EP 0 242 602-A2  
EP 0 274 622-A1  
EP 0 333 018 -A2  
DE 38 39 707-A1  
JP 02-213037-A  
DE 29 22 325-A1  
EP 0 205 184-A2  
DE 36 38 682 -A1  
EP 0 281 743-A2  
DE 37 03 028-A1  
EP 0 428 906-A2  
EP 0 461 442-A2  
DE 196 05 855-A1  
EP 0 910 108-A1  
EP 0 910 109-A1  
DE 102 17 507-A1

Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....  
Corresponds to.....

**CORRESPONDING  
U.S. PATENT**

US 4,713,543  
US 4,785,176  
US 4,831,266  
US 4,926,054  
US 5,041,724  
US 5,041,724  
US 4,330,707  
US 4,728,790  
US 4,812,651  
US 4,896,036  
US 4,896,036  
US 5,061,856  
US 5,146,090  
US 5,780,859  
US 6,107,633  
US 6,104,034  
US 6,737,647 B1

With regard to SU 997135, please see the figure in the document.

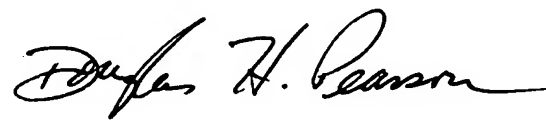
To further assist the Examiner, documents are listed on the attached form PTO-1449.  
It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date August 30, 2004

By:



Douglas H. Pearson  
Registration No. 47,851

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

**FIRST  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/825,240
Filing Date	April 16, 2004
First Named Inventor	STEIGERWALD, et al.
Examiner Name	Unassigned
Attorney Docket Number	007413-076

**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	4,713,543		FEUERBAUM, et al.	12-15-1987
	4,785,176		FROSIEN, et al.	11-15-1988
	4,831,266		FROSIEN, et al.	05-16-1989
	4,926,054		FROSIEN	05-15-1990
	5,041,724		FEUERBAUM, et al.	08-20-1991
	4,330,707		MANZKE	05-18-1982
	4,728,790		PLIES	03-01-1988
	4,812,651		FEUERBAUM, et al.	03-14-1989
	4,896,036		ROSE, et al.	01-23-1990
	5,061,856		FROSIEN, et al.	10-29-1991
	5,146,090		PLIES	09-08-1992
	5,677,530		SATO, et al.	10-14-1997
	5,780,859		FEUERBAUM, et al.	07-14-1998
	5,847,399		SCHMITT, et al.	12-08-1998
	5,895,917		UEDA, et al.	04-20-1999
	5,808,309		SPEHR, et al.	09-15-1998
	6,051,838		FROSIEN, et al.	04-18-2000
	6,107,633		FROSIEN, et al.	08-22-2000
	6,104,034		FROSIEN, et al.	08-15-2000
	6,232,601	B1	SCHMITT, et al.	05-15-2001
	6,037,589		YONEZAWA, et al.	03-14-2000
	4,464,571		PLIES	08-07-1984
	2002/0130262	A1	NAKASUJI, et al.	09-19-2002
	4,780,682		POLITZER	10-25-1988
	2,354,287		ZWORYKIN, et al.	07-25-1944
	2,661,427		PAGE	12-01-1953
	6,310,341	B1	TODOKORO, et al.	10-30-2001
	6,737,647	B2	SCHÖNHENSE, et al.	05-18-2004

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
	EP 0 180 723	A1	EUROPE	05-14-1986							
	EP 0 242 602	A2	EUROPE	10-28-1987							
	EP 0 274 622	A1	EUROPE	07-20-1988							
	EP 0 333 018	A2	EUROPE	09-20-1989							
	DE 38 39 707	A1	GERMANY	05-31-1990							
	JP 02-213037	A	JAPAN	08-24-1990							
	DE 29 22 325	A1	GERMANY	12-11-1980							
	EP 0 205 184	A2	EUROPE	12-17-1986							
	DE 36 38 682	A1	GERMANY	05-19-1988							
	EP 0 281 743	A2	EUROPE	09-14-1988							
	DE 37 03 028	A1	GERMANY	09-01-1988							

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

# **FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

**Complete if Known****Application Number**

10/825,240

**Filing Date**

April 16, 2004

**First Named Inventor**

STEIGERWALD, et al.

**Examiner Name**

Unassigned

**Attorney Docket Number**

007413-076

**FOREIGN PATENT DOCUMENTS**

	EP 0 428 906	A2	EUROPE	05-29-1991							
	EP 0 461 442	A2	EUROPE	12-18-1991							
	EP 0 762 468	A1	EUROPE	03-12-1997							
	EP 0 790 634	A1	EUROPE	08-20-1997							
	DE 196 05 855	A1	GERMANY	08-21-1997							
	EP 0 821 392	A1	EUROPE	01-28-1998							
	EP 0 821 393	A1	EUROPE	01-28-1998							
	EP 0 834 896	A1	EUROPE	04-08-1998							
	EP 0 834 335	A1	EUROPE	05-20-1998							
	EP 0 910 108	A1	EUROPE	04-21-1999							
	EP 0 910 109	A1	EUROPE	04-21-1999							
	EP 0 952 606	A1	EUROPE	10-27-1999							
	SU 997135	A1	SOVIET UNION	02-15-1983							
	DE 102 17 507	A1	GERMANY	11-13-2003							

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	LAURENCE C. OLDFIELD, "Computer Design of High Frequency Electron-Optical System", Image Processing and Computer-Aided Design, Electron Optics, P.W. Hawkes, Ed., Academic Press, London, 1973, pgs. 370-399
	JIN-ICHI MATSUDA, et al., "Calculations of the Aberration Properties of the TM <sub>010</sub> Mode RF-fields Electron Lens", No. 1236, 1975
	G. SCHÖNHENSE, et al., "Chromatic and Spherical Aberration Correction Using Time-Dependent Acceleration and Lens Fields", Microsc. Microanal. 9 (Suppl. 3), 2003, pgs. 34-35, DOI 10.1017/S1431927603011188

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.